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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,237	05/06/2005	Juan Manuel Teijido	282780US8X PCT	3378
OBLON, SPIV	7590 02/22/201 AK, MCCLELLAND	EXAM	EXAMINER	
1940 DUKE STREET ALEXANDRIA, VA 22314			MARTINEZ, JOSEPH P	
			ART UNIT	PAPER NUMBER
		2873		
			NOTIFICATION DATE	DELIVERY MODE
			02/22/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Office Action Summary

Application No.	Applicant(s)		
	1 '''		
10/534,237	TEIJIDO ET AL.		
Examiner	Art Unit		
JOSEPH MARTINEZ	2873		

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	JOSEPH MARTINEZ	2873					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of times may be available under the provisions of 37 CFR 1.15 and the 50x (6) MONITY is from the making date of this communication. - Failure to reply within the sort or dended period for reply will. by statute. Any reply received by the Office later than three months after the mailing agency facility than the common facility.	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).	,				
Status							
1) Responsive to communication(s) filed on 03 Fe	ebruary 2010.						
2a) This action is FINAL. 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the	e merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>41-47</u> is/are pending in the application	1.						
4a) Of the above claim(s) is/are withdray							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) 41-47 is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine							
10)⊠ The drawing(s) filed on 29 May 2008 is/are: a)	☑ accepted or b)☐ objected to l	by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓO-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)□ Some * c)□ None of:							
 Certified copies of the priority documents 							
Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite					
3) Information Disclosure Statement(s) (PTO/Sō/08) Paper No(s)/Mail Date 2-3-10.	5) Notice of Informal F 6) Other:	atent Application					
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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 2-3-10 has been entered.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 2-3-10 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

The indicated allowability of claims 41-47 is withdrawn in view of the reference(s) to Tiao et al. (6318863) and Li (6587269). Rejections based on the cited reference(s) follow.

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 41, 46 and 47 are rejected under 35 U.S.C. 102(b) as being fully anticipated by Tiao et al. (6318863).

Re claim 46, Tiao et al. teaches for example in fig. 2A, an illumination arrangement, comprising: a solid state light source (202); a light collecting, integrating and re-directing device (220) configured to receive at least a part of emitted light from said solid state light source and to redirect said received light (col. 3, In. 21-24); and a light coupling mechanism (212) configured to improve coupling efficiency of said emitted light from said solid state light source to said light collecting, integrating and redirecting device (col. 3, In. 14-17), wherein the light coupling mechanism includes a gap structure (fig. 2A) directly coupling the light collecting, integrating and re-directing device to the solid state light source (col 3, In 14-18), and the gap width of the gap structure is small in particular compared to the cross-sections of the solid state light source and the light collecting, integrating and re-directing device and the light collecting, integrating and re-directing device (fig. 2A; col 3, In 14-18).

Re claim 47, Tiao et al. teaches for example in fig. 2A, an illumination arrangement, comprising: a solid state light source (202); a light collecting, integrating

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and redirecting device (220) configured to receive at least a part of emitted light from said solid state light source and to redirect said received light (col. 3, ln. 21-24); and a light coupling means (212) for improving coupling efficiency of said emitted light from said solid state light source to said light collecting, integrating and redirecting device (col. 3, ln. 14-17), wherein the light coupling mechanism includes a gap structure (fig. 2A) directly coupling the light collecting, integrating and re-directing device to the solid state light source (col 3, ln 14-18), and the gap width of the gap structure is small in particular compared to the cross-sections of the solid state light source and the light collecting, integrating and re-directing device (fig. 2A; col 3, ln 14-18).

Re claim 41, Tiao et al. further teaches for example in fig. 2A, said light integrating device (220) is or comprises a plain light pipe (col. 3, In. 22) in particular a solid integration rod-having a light incidence aperture (220A) and a side wall (wall of 220), wherein said side wall of said light integrated device is provided with a reflecting means (col 3, In 32-36) as said light coupling and/or guiding improving arrangement, and wherein said reflecting means is adapted and/or arrangement so as to reflect light escaping from said light integrating device through the side wall thereof back into said light integrating device (col 3, In 32-36).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 42-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tiao et al. (6318863) in view of Li (6587269).

Re claim 42, supra claim 46. Furthermore, Tiao et al. further teaches for example in fig. 2A, said light integrating device (220) is or comprises a plain light pipe (col. 3, In. 22) in particular a solid integration rod-having a light incidence aperture (220A), wherein said light incidence aperture (220A) of said light integrating device (220) is positioned in a neighborhood (fig. 2A) of a light exit aperture (212B) of said light mixing devices (212).

But, Tiao et al. fails to explicitly teach between said light incidence aperture of said light integrating device and said light exit aperture of said light source device or of said light mixing devices refraction index matching means is or are provided, in particular filling a gap or a gap structure between said light incidence aperture of said light integrating device and said light exit aperture of said light source device and/or light mixing devices.

However, within the same field of endeavor, Li teaches for example in fig. 1 and 5, between said light incidence aperture (501) of said light integrating device (50) and said light exit aperture of said light source device or of said light mixing devices (30) refraction index matching means (col. 5. In. 39-45) is or are provided, in particular filling

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a gap or a gap structure (70) between said light incidence aperture (input of 20 and 50) of said light integrating device (20, 50) and said light exit aperture of said light source device (120) or light mixing devices (30).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Liao et al. with the teachings of Li in order to provide a more uniform intensity profile, as taught by Li (col. 4, In. 16-17).

Re claim 43, Li further teaches for example in fig. 1 and 5, wherein said refraction index matching means is a liquid, gel, and/or a glue (col. 5, ln. 42-44).

Re claim 44, Li further teaches for example in fig. 1 and 5, wherein said refraction index matching means has a refraction index which essentially coincides with the refraction index of the material of said light integration device or with the refraction index of the material of the light source devices periphery (col. 5, ln. 42-44; wherein the examiner interprets the refractive index of the "low index epoxy or other transparent material such that the total internal reflection still occurs" to teach a refraction index which essentially coincides with the refraction index of the material of said integration device).

Re claim 45, Li further teaches for example in fig. 1 and 5, wherein said light integration device (20, 50) is or comprises a hollow light pipe (col. 4, ln. 25) having a light incidence aperture (input of 20 and 50), wherein said light incidence aperture of

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said light integrating device (20, 50) is positioned in a neighborhood of a light exit aperture (fig. 5) of said light source device (120) or of said light mixing devices (30) and wherein a second or end section in the neighborhood of said light incidence aperture (input of 20 and 50) and/or being terminated by said light incidence aperture (input of 20 and 50) is - in particular completely - filled with a plain light pipe section (20 or 50), in particular for matching the respective refraction indices (col. 4, In. 30-33; wherein the examiner interprets 20 and 50 could be made from the same material).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph P. Martinez whose telephone number is 571-272-2335. The examiner can normally be reached on M-F 7:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Mack can be reached on 571-272-2333. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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/Joseph Martinez/ Primary Examiner AU 2873 2-16-10